



## Technical Memorandum

To: Charles Howell – Environmental Manager – American Zinc Products  
Timothy Basilone – Vice President Environmental Affairs – American Zinc Recycling  
From: EnSafe

Re: American Zinc Products (AZP) – Mooresboro, NC – Maintenance Pond Sampling  
Date: September 13, 2021

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### ***Maintenance Pond Sub-Liner Hand Auger Sampling***

On September 8, 2021 EnSafe mobilized to site to advance two hand auger locations below the liner within the Maintenance Pond. A map of the Maintenance Pond sampling locations can be found below. Location HA8 was advanced in the southeastern portion of the pond near the pump well. Below the liner system there was a layer of sand/gravel approximately 24-inches thick. The sand/gravel layer was moist and had an acidic odor. A shovel was used to remove the sand/gravel layer to expose the underlying soil. Prior to advancing the hand auger within the underlying soil it was noted that liquid was seeping from the sand/gravel layer at about 18-inches below the liner. The liquid contained a brown organic layer which floated on top. A sample was collected, and the pH was measured onsite at 1.33 standard units. The boring was terminated due to the liquid accumulation within the hole. A sample of the sand/gravel bedding material was collected.

The second location (HA9) was advanced in the northwest corner of the pond. The sand/gravel layer was approximately 22-inches thick, had a slight acidic odor but contained no free liquids. A hand auger was used to advance the boring below the sand/gravel layer. Soils consisted of dry silty clay with frequent gravel pieces. The hand auger was advanced to approximately 1-foot below the sand/gravel layer where refusal was met due to large gravel pieces. Three samples were collected at this location: the bedding material, the 0-to-0.5-foot interval, and the 0.5-to-1.0-foot interval.

All samples were submitted to Waypoint Analytical Laboratory (Charlotte, NC) for analysis of the 8 RCRA Metals, Zinc, pH (soil only), and Total Organic Carbon (TOC). Results are pending.

Sample locations were filled in with the material that was removed, and contractors patched the holes cut in the liners.

